

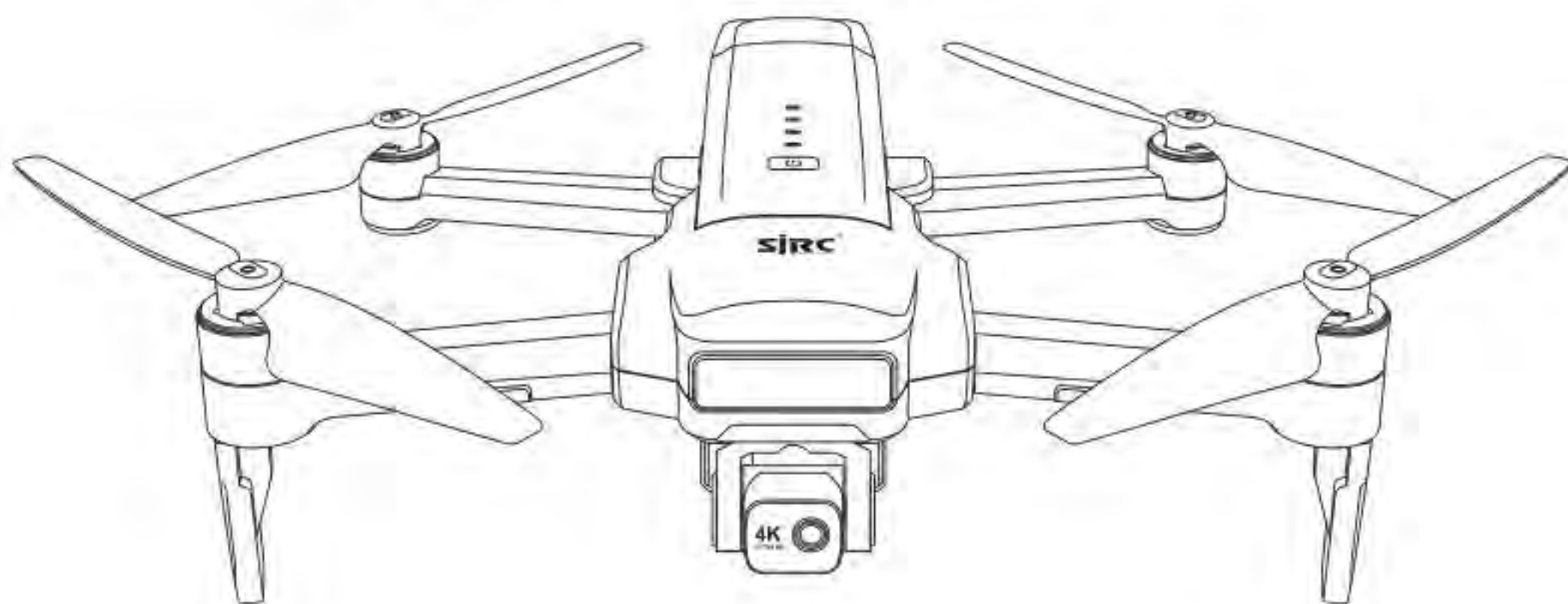


14+
for age

F22 S3 PRO

— FOLDING AIRCRAFT —

RC QUADCOPTER



— ULTRAPORTABLE AND FOLDABLE —

In order to make sure that it meets the requirement of the electromagnetic environment of the aviation radio station, flying within the scope of 10 kilometers on each side by taking the airport runway center line as the middle line is **HIGHLY FORBIDDEN** or flying within the scope of 20 kilometers by taking both ends of the runway as the center is **HIGHLY FORBIDDEN**. Flying on the route of the airline is also **PROHIBITED**. Stop using all kinds of flying models or unmanned Quad-rotors in the AREA that prohibited by related authority or department of our country.

CONTENTS

PREFACE	1
WARNING	3
EXEMPTION	5
FLY SAFETY	6
AIRCRAFT	7
1. AIRCRAFT DIAGRAM	7
2. ASSEMBLE THE PROPELLER	7
3. LANDING GEAR	8
4. INTELLIGENT FLIGHT BATTERY	8
REMOTE CONTROL	9
1. REMOTE CONTROL FUNCTIONS	9
2. REMOTE CONTROL OPERATING METHOD	10
3. MPH & M/S & KM/H CONVERSION	10
4. DUAL REMOTE CONTROLLER MODE	10
LITHIUM BATTERY	11
1. CHARGE THE BATTERY	11
2. LITHIUM BATTERY CHARGING INSTRUCTIONS	11
FLIGHT	12
SJ F PRO APP	15
1. DOWNLOAD THE SJ F PRO APP	15
2. APP INTRODUCTION	15
CONSTANT SPEED CRUISE	15
ONE-KEY FLY FAR	16
ONE-KEY SKYROCKETING	16
ONE-KEY SPIRAL	16
3. APP ONE KEY SHARE FUNCTION	17
4. HOW TO SEARCH THE LOST DRONE	18
5. FLIGHT	18
AIRCRAFT FUNCTION PROFILE	20
WAY POINT FLIGHT	20
POINT OF INTEREST	20
EMERGENCY STOP	21
GPS FOLLOW-ME	21
RETURN-TO-HOME (RTH)	22
DISTANCE FINDING MODULE	23
COMMON SOLUTIONS	25
SPECIFICATIONS	26
PARTS LIST (INCLUDED)	28
COMMON PROBLEMS AND SOLUTIONS	28

PREFACE

Thank you for purchasing the SJ-Series GPS aircraft. Please read all instructions and warnings carefully before operating. Please also keep this instruction manual for future reference and maintenance.

IMPORTANT:

1. This product should be operated by the people who are over 14 years old. It is a precision device; integrating machinery and electronics with air mechanics and high frequency transmission. It requires correct assembly and debugging to avoid any accident. The user should operate and control this product in a safe manner. In case of incorrect operation, it may cause serious injury or damage property. It can also be lost due to incorrect operation.
2. This product is suitable for experienced UAV pilots no less than 14 years of age.
3. In the event of a problem during using, operating, or maintenance, please contact the local sales agent or retailer or keep in touch with the responsible staff of our company.

SAFETY PRECAUTIONS:

This R/C aircraft can be dangerous when in use, please make sure you keep it far away from any persons or spectators when flying. In-correct installation, poor conditions, or users not familiar with operation may cause damage to the aircraft or injure people or may cause an unexpected accident. Please pay close attention to flying safety and learn to recognize more dangerous conditions which may cause an accident due to your own negligence.

1. Keep it far away from any structures or crowds.

This R/C aircraft may vary slightly in speed or sensitivity while flying and can cause potential danger. Therefore, please keep it far away from crowds, buildings, trees, structures, high-voltage wire, etc. Please also avoid flying in adverse weather conditions such as rain, electrical storms, and high winds to ensure safety of the user, any spectators, and surrounding property.

2. Keep it away from any moist environment.

The inside of the aircraft is composed of many precision electronic and mechanical parts. Therefore, please try to avoid any moisture or water content from entering the main body of the aircraft as it may cause a breakdown of the mechanical and electronic parts and thus cause an accident.

3. Only operate with included parts for intended use.

Please use the original parts made by SJ-Series for any re-equipping or maintenance to ensure flying safety. Please operate and use only under the scope of the product function permitted. Using un-approved parts will void warranty.

DO NOT use for any illegal purpose or use beyond the scope of which your local laws and regulations have stipulated.

4. Avoid controlling it independently.

New users may have certain difficulties during the early stages of learning to operate this aircraft. Please try to avoid operating the aircraft alone.

When available, always operate this aircraft under the guidance of a more experienced user.

5. Do not operate under the influence of drugs or alcohol.

Please operate this R/C aircraft according to your own state and flying skill. Any fatigue, bad mental state, or incorrect operation may increase the probability of accidental risk.

6. Please keep a safe range from aircraft when using top speed.

When the operator is flying in high speed, please keep the aircraft far from the pilot and any surrounding persons or objects so as not to cause danger or damage.

7. Store it in a cool, dry place.

The R/C aircraft is composed of material such as metal, fiber, plastic, electronics, etc. Therefore, please keep it away from any heat source and avoid prolonged exposure to direct sunlight. Excessive heat exposure can cause distortion and damage.

- NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.
- However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - Reorient or relocate the receiving antenna.
 - Increase the separation between the equipment and receiver.
 - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - Consult the dealer or an experienced radio/TV technician for help.
- Please note that changes or modifications not expressly approved by the party responsible for compliance could void the use's authority to operate the equipment.

WARNING

1. There is important information contained in this package and instruction manual, please keep it for future reference.
2. You have the responsibility to make sure that this model of aircraft won't cause injury to others' body or cause any damage to property.
3. Please operate strictly as shown on the instruction manual when debugging or assembling this aircraft. During the process of flying or landing, please pay more attention to keep 1-2 meters between the user and the aircraft to avoid colliding to the head or face or body, which may cause injury.
4. Our company and distributors won't be responsible for any incorrect operation, which may cause loss or damage or injury to the body.
5. Children ages 14 and up should use this product under the guidance of an adult. This product is FORBIDDEN to be used by children under 14 years old.
6. Please correctly assemble and use this product as shown on the instruction manual or packing instruction. Some parts should be assembled by an adult.
7. Small parts are included with this product. Please place it beyond the reach of the children to avoid a CHOKING HAZARD or parts being mistakenly swallowed.
8. Playing on the road or near high traffic areas is strictly FORBIDDEN so as not to cause an accident.
9. Please dispose of the packing material timely so as not to cause injury to children.
10. Please DO NOT disassemble or re-equip the aircraft as it may cause a breakdown of the aircraft during flying.
11. Batteries in the battery compartment of the charger should be inserted into the designated power source which has the same logo as the product.
12. Built-in rechargeable 7.4V lithium polymer battery included in the remote control.
13. Only the original charger made from our factory can be used.
14. Charger is not a toy.
15. When charging the battery, please conduct it under the surveillance of an adult. Please also keep it far away from any combustible object when charging. Please keep this aircraft within eyesight when charging.
16. Please DO NOT make it short-circuited or squeeze the battery so as not to cause an explosion.
17. DO NOT mix the Li-ion battery with a different type of battery.
18. Intelligent lithium battery is loaded in the Quad-rotor. Both built-in or external can be used for charging.
19. Please DO NOT make the battery short-circuited or decompose the battery or throw the battery into the fire; DO NOT place the batteries near the high temperature or heated area (such as near the fire or near the electric heating device).

- 20. The aircraft should be kept far away from any other electric compliance or equipment as far as possible or kept far away from the place where having the magnetic object nearby as they may cause interference with each other.
- 21. Please keep the safe distance from the high-speed rotating rotor so as not to cause twisted or danger of being wounded or being cut.
- 22. Engine will heat up. Please DO NOT touch it to avoid being burned or injured.
- 23. Please DO NOT close this product to your ear as it may cause injury to your hearing.
- 24. To comply with the command of the magnetic environment requirement formulated by the Aviation Radio Bureau and the related authority, during the regulated period in certain areas, please stop using the remote control of this model when such regulation command is issued.
- 25. Keep your UAS within sight.
- 26. Never fly over groups of people.
- 27. Never fly over stadiums or sports events.
- 28. Understand airspace restrictions and requirements.
- 29. Type-C CHARGING CABLE: 5V-20V=30W.

**WARNING:**
CHOKING HAZARD -Small parts.
Not for children under 3 years.

**NOT SUITABLE FOR CHILDREN UNDERSTAND DUE TO SMALL PARTS**
هشاشة: يرجى إبقاء هذا المنتج بعيداً عن متناول الأطفال
تحذير: يرجى إبقاء هذا المنتج بعيداً عن متناول الأطفال
للمزيد من المعلومات، يرجى قراءة التعليمات
COUNTRY OF ORIGIN: CHINA
بالتعاون مع الصين

**صنعت وفقاً للمواصفات والمعايير الدولية**
Tested according to international standards

**MADE IN CHINA**

WARNING: Product should only be used by adults and children 14 years and older. Adult supervision required for children under 14 years of age.

WARNING: CHARGING OF THE AIRCRAFT BATTERY MUST BE SUPERVISED AT ALL TIMES BY AN ADULT. UNPLUG THE BATTERY WHEN FULLY CHARGED. DO NOT OVER-CHARGE THE BATTERY.

FCC ID:2ALUJF22S3PRO

FCC Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

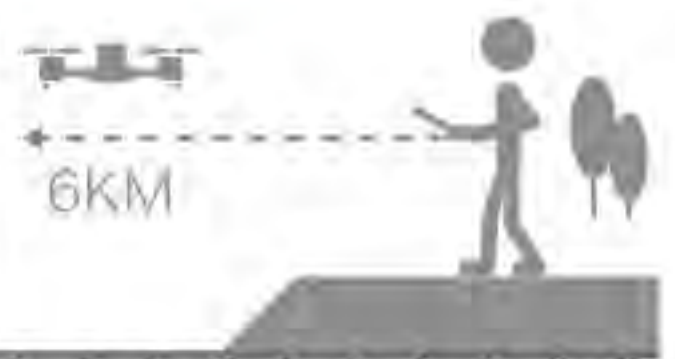
EXEMPTION

When using this product, SJRC shall not be responsible for direct or indirect damages caused by the following reasons:

1. The damage caused by the user in the condition of drinking, drug taking, drug anesthesia, dizziness, fatigue, nausea and other poor physical or mental conditions.
2. Personal injury, property loss and legal liability caused by the user's subjective intention or wrong judgment.
3. Compensation for any related spiritual damage caused by the accident.
4. Damage caused by users flying in flight areas prohibited by laws and regulations such as nature reserves.
5. Other damage caused by poor operation of Quadrotor due to re-equipment training or replacement of accessories or parts not produced by SJRC.
6. The Quadrotor sends low-pressure alarm and still does not land, resulting in the Quadrotor falling down.
7. Damage caused by forced flight knowing that the Quadrotor is in an abnormal state (such as water, oil, soil, sand or other unknown substances mixed in or the assembly is not completed or the main components have obvious faults or the accessories have obvious defects or missing).
8. Damage caused by the Quadrotor flying in magnetic interference area, radio interference area (such as areas near high-voltage power lines, large power equipment, radio and television transmission towers, mobile phone base stations, etc.), no fly area specified by the government, or the user's vision is in backlight, blocked by obstacles, blurred vision, poor magic power and other conditions unsuitable for control.
9. Fly in bad weather, such as rain or wind (more than level 4), snow, hail or other bad weather.
10. The Quadrotor encounters collision, overturn, fire, explosion, lightning strike, storm, tornado, rainstorm, flood, tsunami, ground subsidence, ice subsidence, cliff collapse, avalanche, hail, debris flow, landslide, earthquake, etc.
11. Damage caused by infringement of any data, audio or video data obtained by the user using the Quadrotor.
12. For the battery, such as damage caused by improper matching of protection circuit, battery pack and charger.
13. Any indirect losses or legal liabilities caused by problems of equipment or accessories (including memory cards), for example, images or videos that cannot be saved.
14. Losses or legal liabilities caused by the user's reckless unsafe flight without completing sufficient flight training.
15. The user promises to use the product only for legitimate purposes and agrees to abide by these terms and any relevant policies or guidelines that may be formulated by SJRC. Some details of this document may change with the upgrade of the product software version. Please read the upgrade details carefully before upgrading the software version. The instruction manual will be updated with or without prior notice.

FLY SAFETY

Image transmission site requirements : When conducting long-range control of aircraft, make sure no shelter between the remote control and aircraft. The remote control should be kept horizontally placed. The image transmission distance is about 6 KM. Don 't start the return home(RTH) function against the wind.



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+



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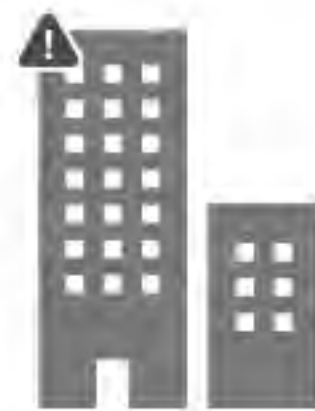


Fly in Open
Areas

Strong GPS
Signal

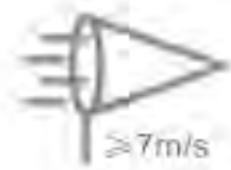
Maintain Line
of Sight

Maximum flight
altitude height is
about 120 meters.



Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airport or bodies of water.

DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.



DO NOT use the drone in adverse weather conditions such as rain, snow, fog and wind speeds exceeding 7 m/s or 16 mph.



Stay away from the rotating
propellers and motors.



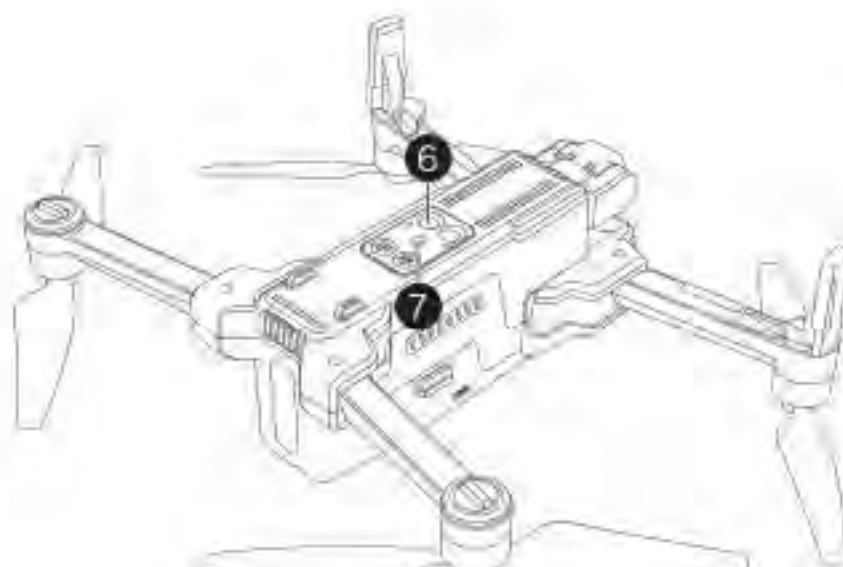
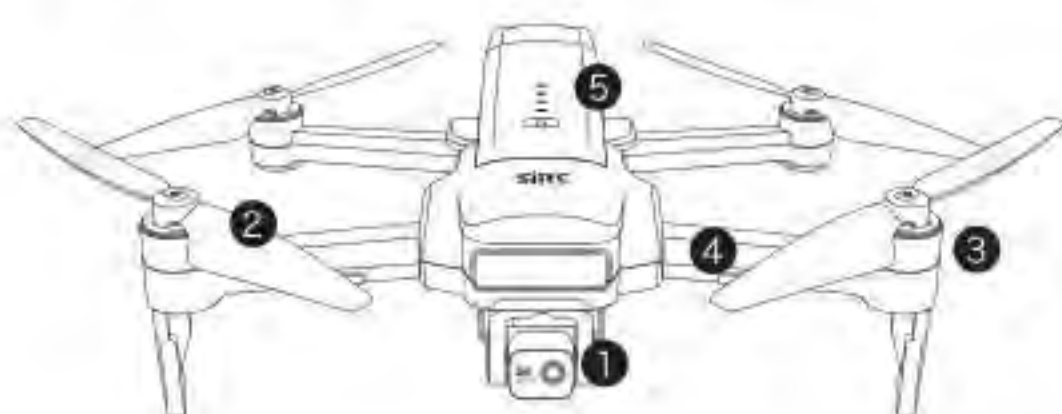
No Fly Zone



It's important to understand basic flight guidelines, for the safety of both you and those around you. Don't forget to read the Safety Guidelines before flight.

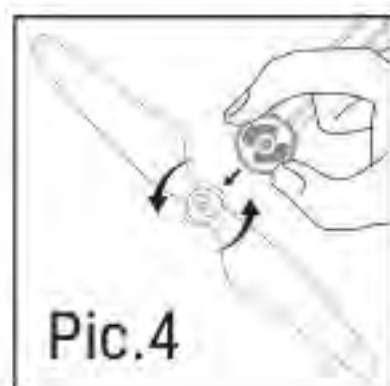
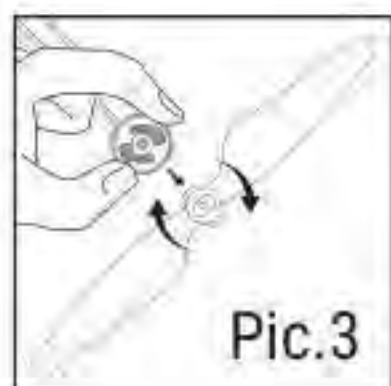
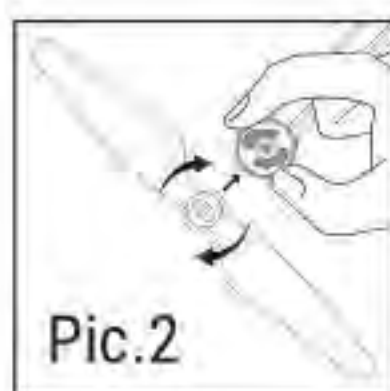
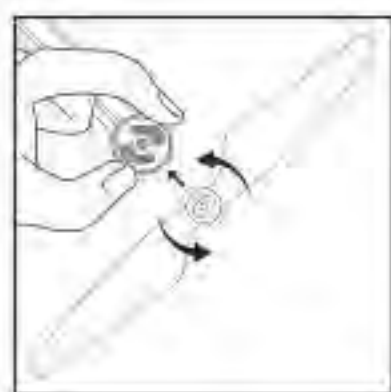
AIRCRAFT

1. AIRCRAFT DIAGRAM



1. 3-Axis EIS 3. Motor 4. LED 5. Intelligent Li-ion Polymer battery
2. Propeller 6. Night light 7. Distance finding module
-

2. ASSEMBLE THE PROPELLER



ASSEMBLE THE PROPELLER A

Hold the motor, put the propeller in the motor spindle, aim at the propeller clip with the motor groove, press it down and rotate it in counter-clockwise direction.

ASSEMBLE THE PROPELLER B

Hold the motor, put the propeller in the motor spindle, aim at the propeller clip with the motor groove, press it down and rotate it in clockwise direction.

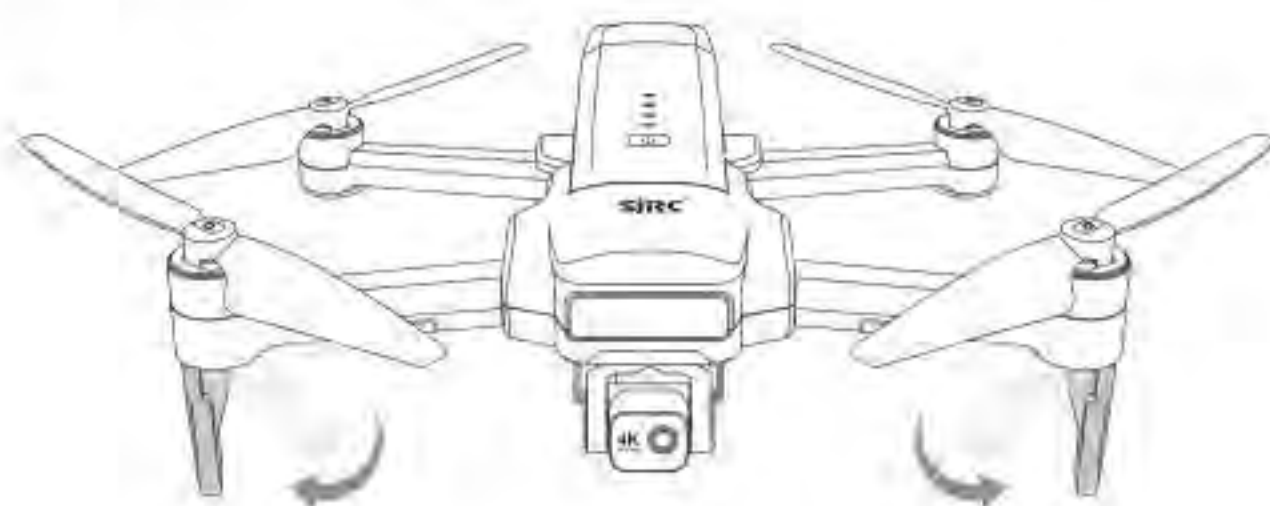
TAKE THE PROPELLER A OUT:

Hold the motor, press the propeller down and rotate it in clockwise direction.

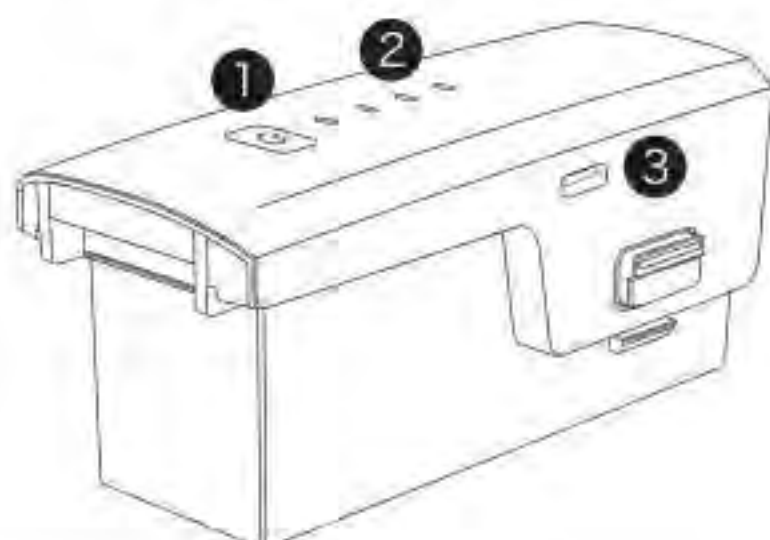
TAKE THE PROPELLER B OUT:

Hold the motor, press the propeller down and rotate it in counter-clockwise direction.

3. LANDING GEAR



4. INTELLIGENT FLIGHT BATTERY



1. Battery switch
2. Battery power indicator
3. Type-C charging port

Low ← Electricity → High



- Hold the switch button for 3 sec. power on; then press the button for 3 sec. power off.
- When the battery is in low voltage, Blue indicators will be blinking, now please charge the battery.

Tip: The battery has automatic discharge function after full charge. When the user does not use it for a long time under the environment in the high temperature, In order to prevent the battery from bulging, self-discharge to about 12V then cut-off discharge.

REMOTE CONTROL

1. REMOTE CONTROL FUNCTIONS



Throttle stick

Direction stick

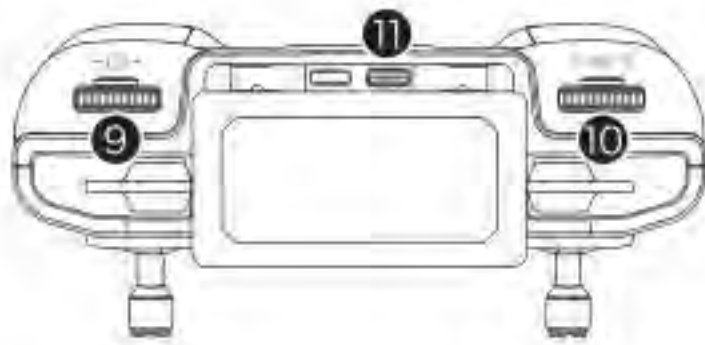
Click  to enter constant speed cruise mode; keep pressing for 3 seconds to emergency stop

Click the  to see the amount of electricity, and then keep pressing the button for 3 seconds to power on

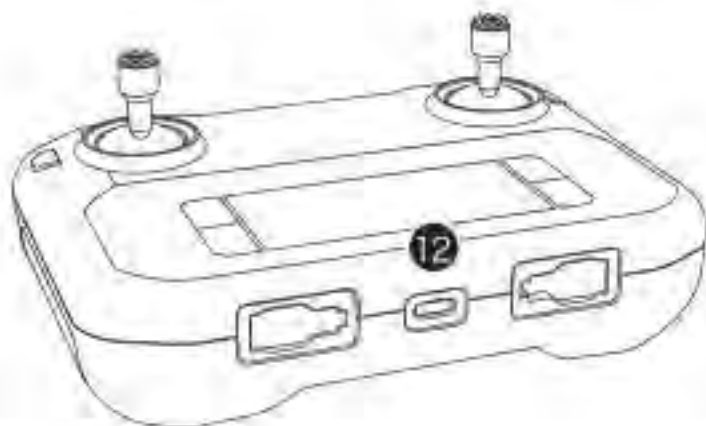
Click once speed switch;

keep pressing for 3 seconds to enter the attitude mode

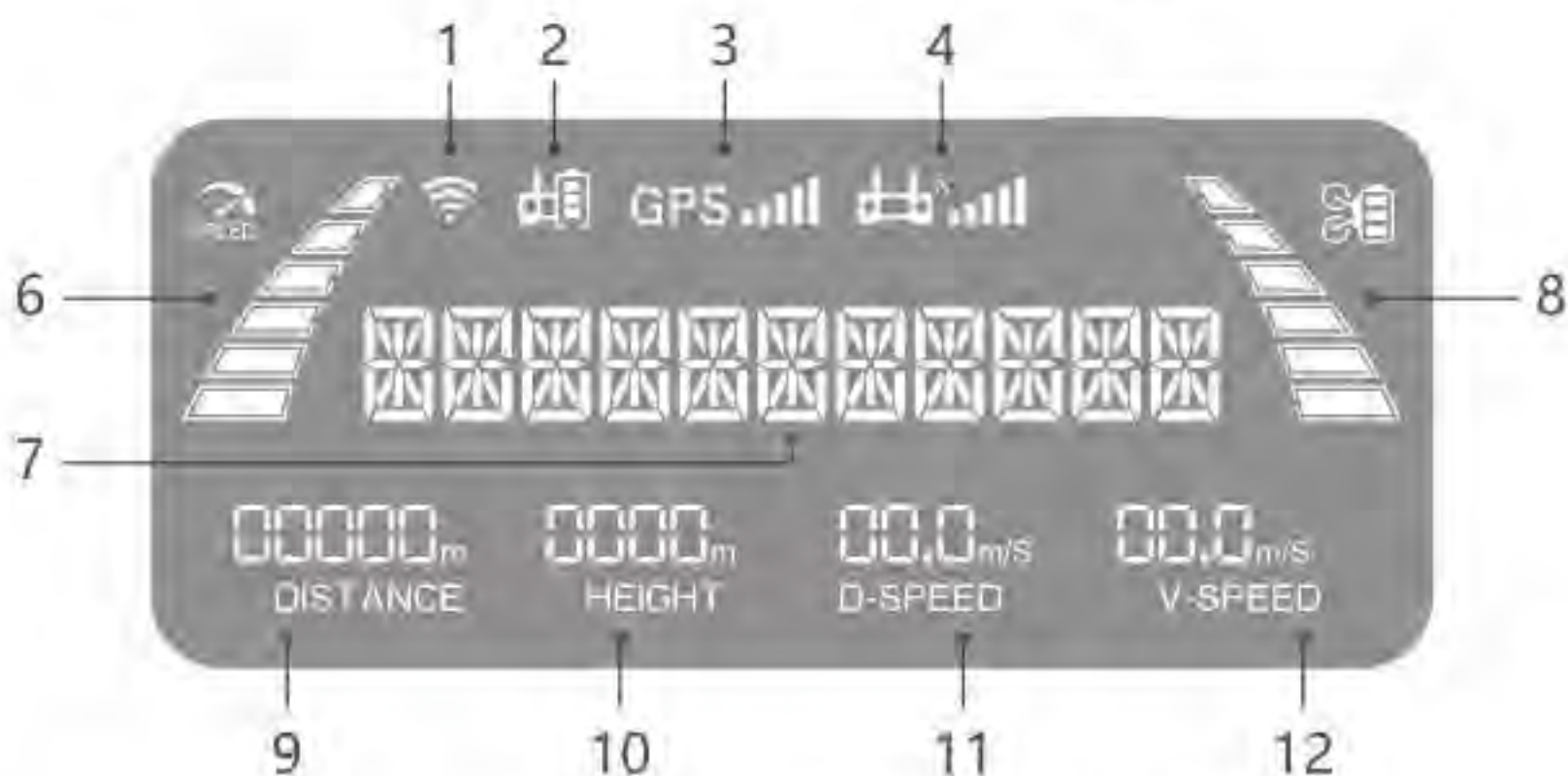
Click once to RTH mode;



Zoom in and out



Communication connection interface
Charging port



1. Long-distance version

2. Electric quantity of remote control

3. GPS signal intensity

4. Remote control signal intensity

6. Speed

7. Status Display

8. Electric quantity of aircraft

9. Distance

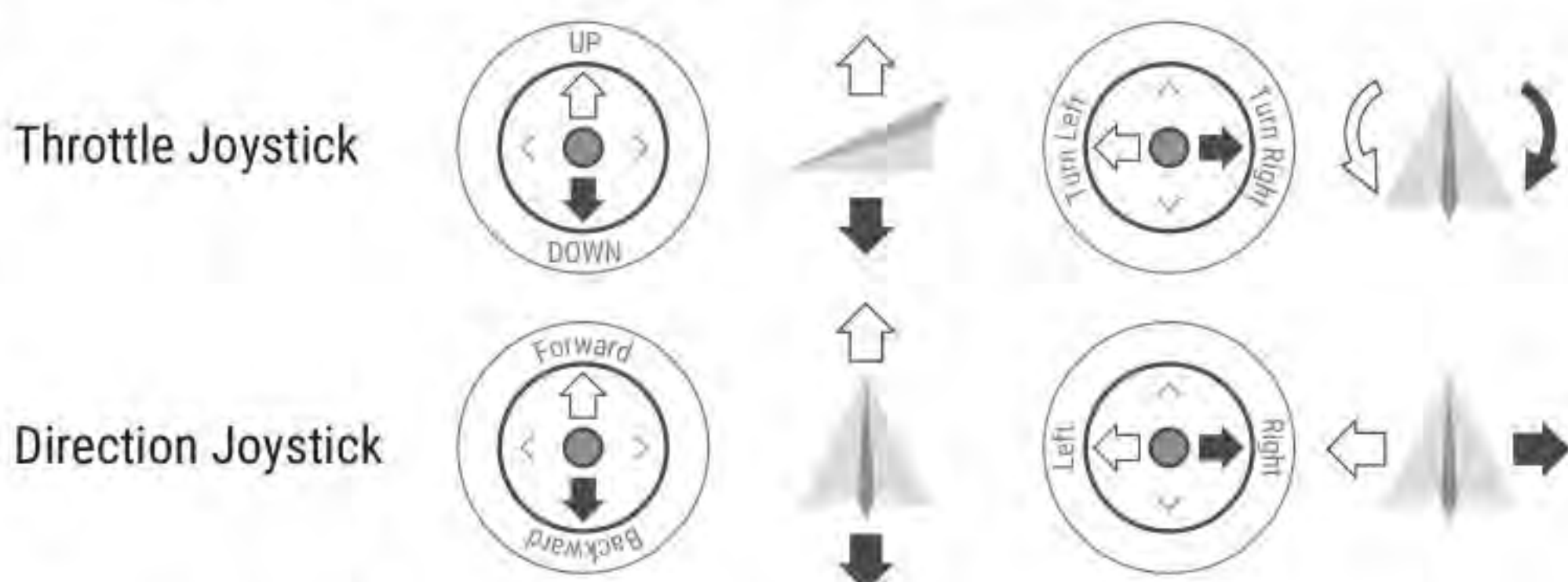
10. Height

11. Flight speed

12. Ascend/Descend speed

Tips: When the remote control is in low power,  keeps flashing, now please stop to fly the aircraft and charge the remote control.

2. REMOTE CONTROL OPERATING METHOD

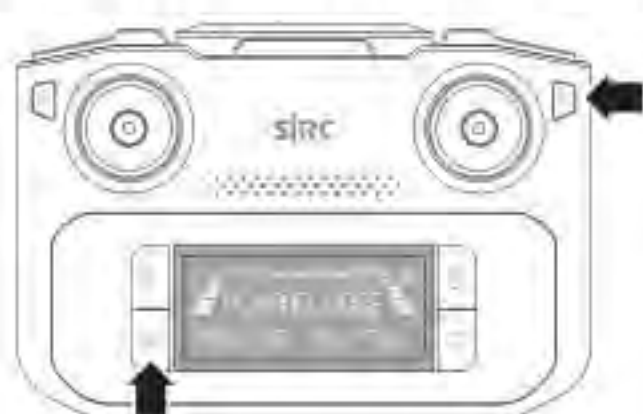


3. MPH & M/S & KM/H CONVERSION



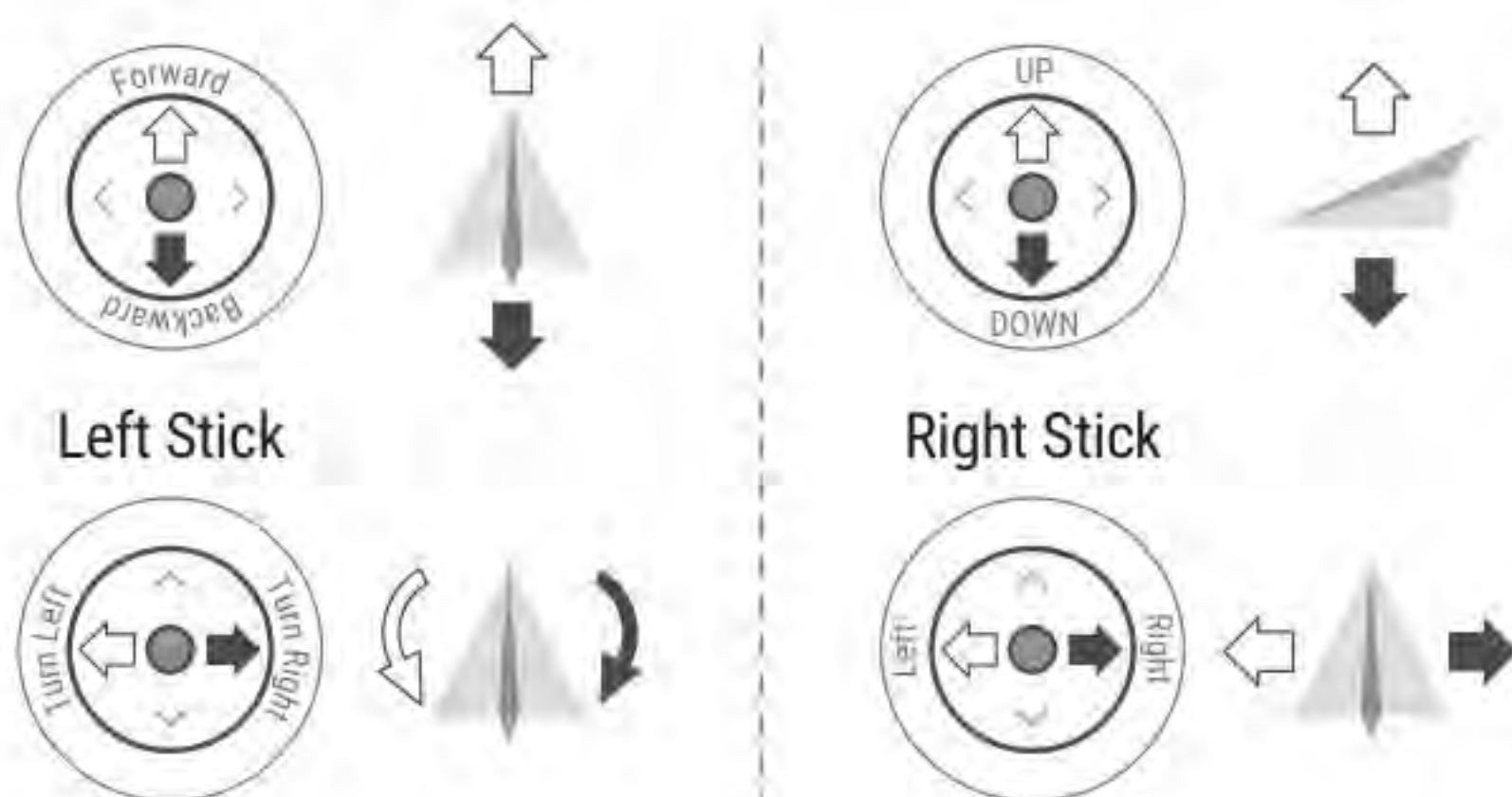
- The remote control should be operated without power on.
- Keep pressing  without releasing on the remote control. then click the  2 times (click the power-on to see the amount of electricity, and then keep pressing the power-on for 3 seconds) and switch to the inch display.

4. DUAL REMOTE CONTROLLER MODE



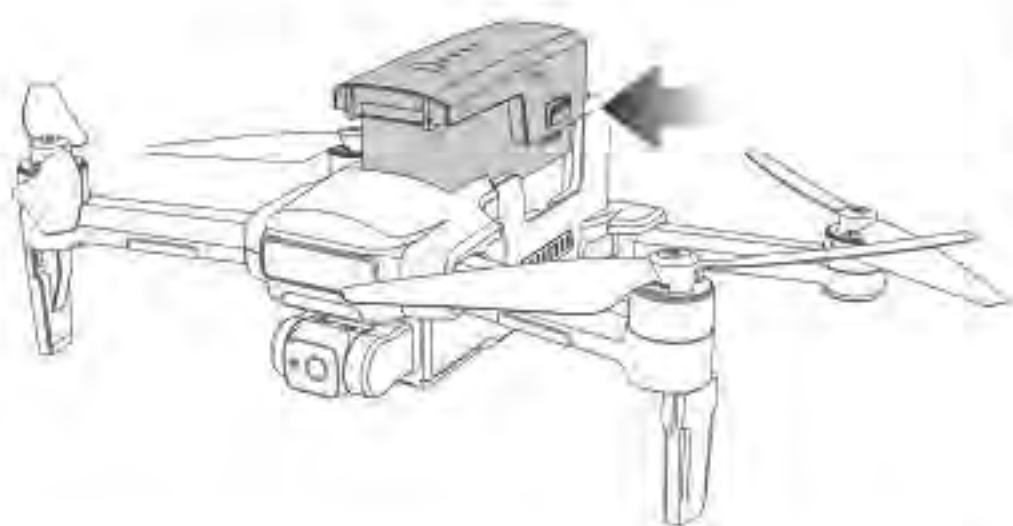
- The remote control should be operated without power on.
- Keep pressing the  and clicking the  twice at the same time. (Click once power on to check the electric quantity; then keep pressing for 3 seconds to power on). Now the right joystick is the throttle stick. LCD screen appears "R HRMD

MODE", now the right joystick turns to throttle operating mode. Turn off the remote control and turn it on again, now the left joystick turns to throttle operating mode.

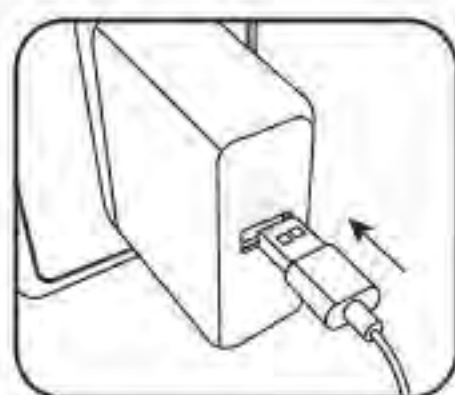


LITHIUM BATTERY

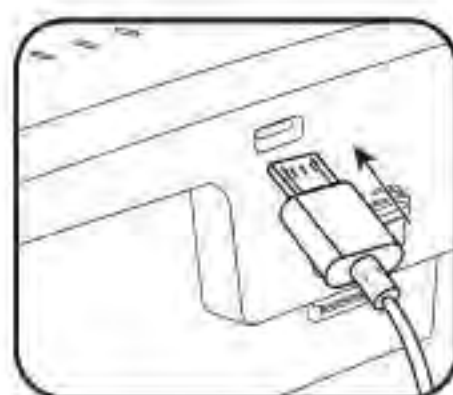
1. CHARGE THE BATTERY



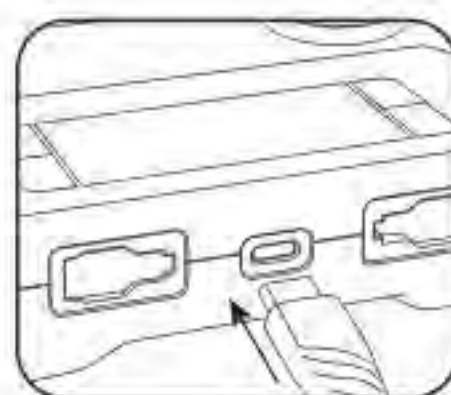
Press the buckle and take out the battery from the aircraft.



Phone adapter:
5V-20V = 30W
(Not included)
Quick Charge supported



Charging time:
About 120 min
(Depending on
Charging adapter)



Remote control
charging method

 → 
Charging Full charging

2. LITHIUM BATTERY CHARGING INSTRUCTIONS

1. Either power on or power off, the aircraft can be charged. Connect the Type-C charger to an DC power supply, and then connect with the charging port of the aircraft, when in charging, the indicator on the aircraft will become Blue blinking; All indicators keep solid on means charging completed.
2. Aircraft can be charged by the mobile power or car-loaded power.
3. Charging time of aircraft takes about 120 min; operating time takes about 40 min.
4. Remote control is built-in 7.4V 550mAh*2 lithium polymer battery, charging time takes about 1 hour, operating time about 2.5 hours.

FLIGHT



STEP 1:

Insert the connector cable on the remote control with the mobile device, click once to check the electric quantity; then keep pressing for 3 seconds to power on.

(It takes about 45 seconds for the frequency pairing after starting the system.)

STEP 2: Turn on the aircraft and set down on a level surface

- The aircraft will auto-trim to this level surface.
- Four aircraft arms -- Blinking Red.
- Power on the remote control and link the aircraft automatically.
- Lights flashing blue (back) and white (front).

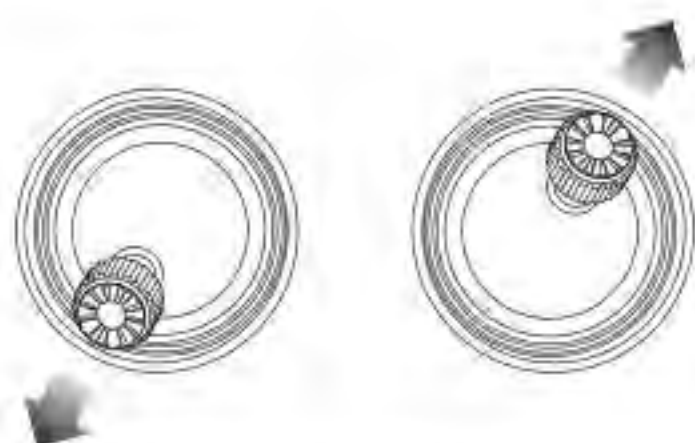


STEP 3:FREQUENCY PAIRING INSTRUCTION

Enter into the APP first page  –  –  , following the instructional video.

STEP 4: Reset to factory Setting / Level calibration

- Push the throttle lever of the remote control to the "7" o'clock position and push the direction lever to the "1" o'clock position.
- Blue light (rear) + White light (front) of the aircraft: Keep flashing quickly.



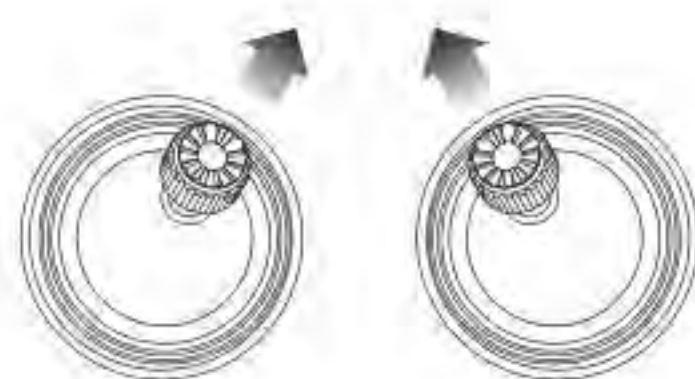
App Status: "Reset to factory Setting / Level level calibration"

Precautions: Please put the aircraft on the horizontal ground for the restore factory setting. Otherwise it may affect the flight attitude.

STEP 5: Compass Calibration

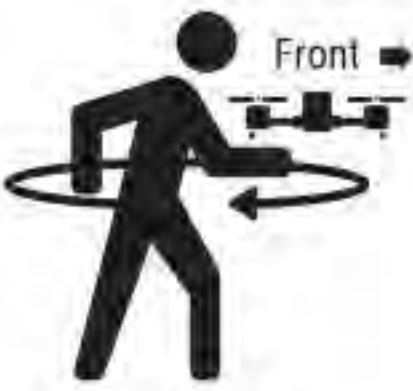
1. Compass Calibration Part 1

- Push the joysticks into the 1 & 11 o'clock position.
- Lights rapid-blinking Blue / red (back) and White / red (front).
- App aircraft status: "Compass calibration".



Remark: The compass will be calibrated automatically when the magnetic interference occur, it is necessary to calibrate the compass manually.

STEP 6: Compass Calibration--Part 1



- Pick up the aircraft horizontally and turn it around with your body(360°) and the remote control will send out a beeping sound.
- Blue light + red light (front) of the aircraft--Solid on.

STEP 7: Compass Calibration--Part 2



- Pick up the aircraft from the bottom, head of the aircraft facing down and follow your body for a complete circle (360°).
Now remote control makes "DI" sound.
- White light + red light (front) of the aircraft--Solid on.

APP Status: Please place the aircraft on a level ground and hold the aircraft stationary until the head of the pendant reallocates.

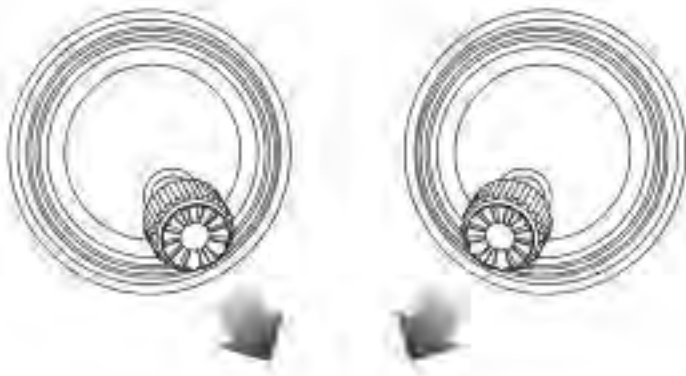
STEP 8: GPS Searching(DO NOT use GPS Mode indoor)



- Reposition the aircraft on a horizontal surface.
- Blue light (rear) + White light (front) of the aircraft keep slowly flashing. It means the GPS enters into the state of Satellite Search.
- It takes a few minutes to complete this step.
- Blue light (rear) and White light (front) of the aircraft shows Solid on, this means the GPS satellite searching is successful.

NOTICE: Fly in open areas, tall structures and large metal structures may affect the accuracy of the onboard compass and GPS system. Please search the GPS signal in the open areas.

STEP 9: Starting/Stopping motors



- Push the joysticks into 5 & 7 o'clock position.
- Motors automatically to start, push the left joystick to take off the aircraft. (Starting the motors before the aircraft taking off).

NOTE: Starting the motors should be set before the aircraft take off.

- Stopping Motors:
 1. Pushing the joysticks into 5 & 7 o'clock position again, motors stop working.
 2. The motors will stop working if the motors starting are not operated after 20 seconds.
 3. Pull down the throttle stick (Left joystick) for 2 seconds to cancel the motor unlocking.

All LEDs on the front arms and rear arms, you are ready to fly!

- Blue (rear) and Blue (front) lights are all solid (no blinking).
- App aircraft status: "Ready to fly".



NOTICE: If the LED indicators on the arms of the aircraft: blue light (rear) + blue light (front) keep slowly flashing means the GPS signal is weak; Please keep pressing  for 3 seconds to turn off the GPS mode: blue light (rear) keeps flashing + white light (front) is solid on, aircraft enter into the flight attitude mode, now the aircraft can take off.

SJ F PRO APP

1. DOWNLOAD THE SJ F PRO APP



2. APP INTRODUCTION

Wait until the aircraft Status says "Ready to Fly" before initiating flight. This will ensure that your GPS is synced and your aircraft is ready to fly.



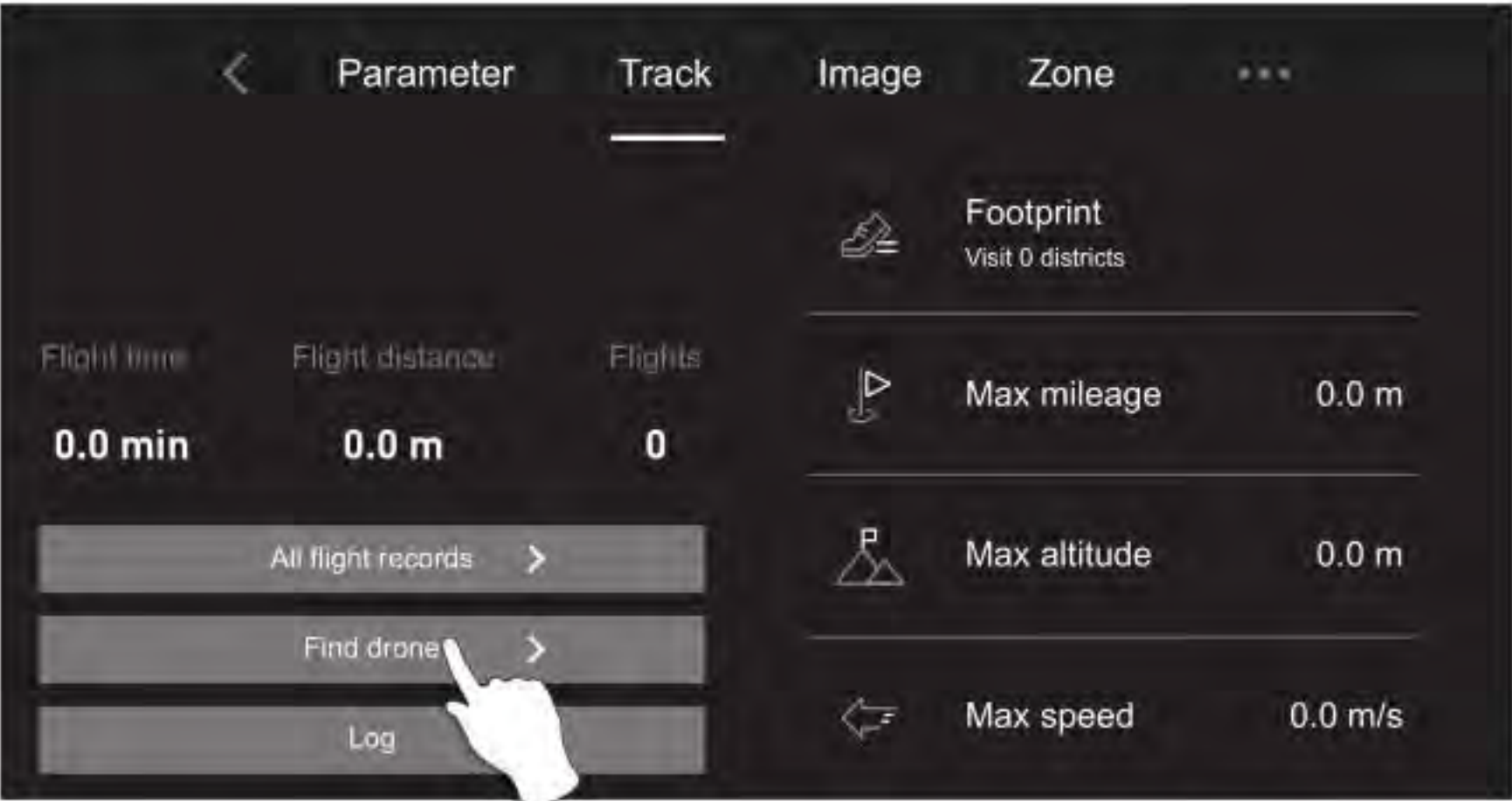
- | | | |
|----------------------|-----------------|--------------------|
| Back to Main Menu | Auto Take-off | Media Gallery |
| Compass interference | GPS Return Home | Sound Recording |
| Remote Battery | More Functions | Distance (meters) |
| GPS Signal | SD card status | Height (meters) |
| Aircraft Battery | | Speed (meters/sec) |
| Setting | | |

CONSTANT SPEED CRUISE

Control the aircraft forward, backward, left-side or right-side by the direction joystick (right joystick), press the constant speed cruise function then release the direction joystick (right joystick), now the aircraft will fly in the direction of the current speed gear.
Trigger the function button again to exit the constant speed cruise function. This function can only be used after the successful search of stars.
It will be automatically exited when the flight height lower than 15 meters.

4. HOW TO SEARCH THE LOST DRONE

①.Continue to click **Find drone** > to open the MAP surface to search the aircraft.



②.The last position of lost aircraft will be appeared on the MAP.



Current position of the mobile phone

5. FLIGHT

The Default GPS Mode is BEGINNER MODE:

- 1.Flight Distance is between 0-30 M.
- 2.Flight Altitude is between 0-30 M.
- 3.RTH Altitude is under 20 M.

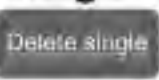
You can Turn-off the BEGINNER MODE to set the parameters in the APP from the smart phone.

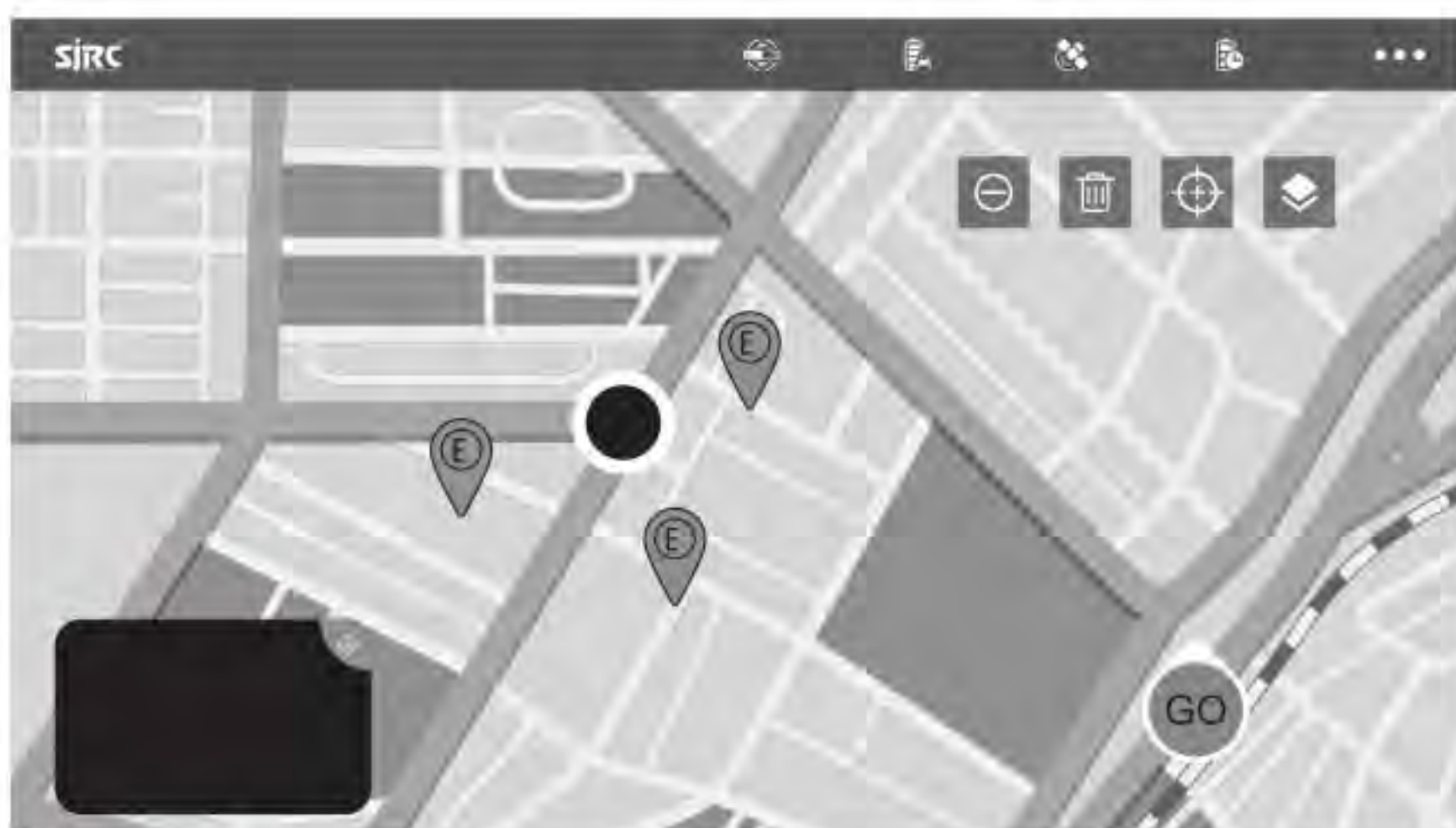
● ● ●
Flight System
Setting



AIRCRAFT FUNCTION PROFILE

1. WAY POINT FLIGHT

- Ensure the mobile internet connected, enter  in the APP, catch the map data of the area when you intend to fly in your mobile device, then connect your mobile device with your aircraft, you can view the map from  in the APP.
- Successfully connect the aircraft WIFI with your smart phone, click  on the App, then you can find a RED CIRCLE(LIMITTED FLIGHT RANGE)/TAKE-OFF POSITION/AIRCRAFT CURRENT POSITION on the map, mark the points (16 points at most) you plan to fly within the RED CIRCLE range on the map. If you would like to reset the points or flight route, click  or . Click , confirm to start Way Point Flight. Pushing the Right Joystick to cancel the Way Point Flight Function.

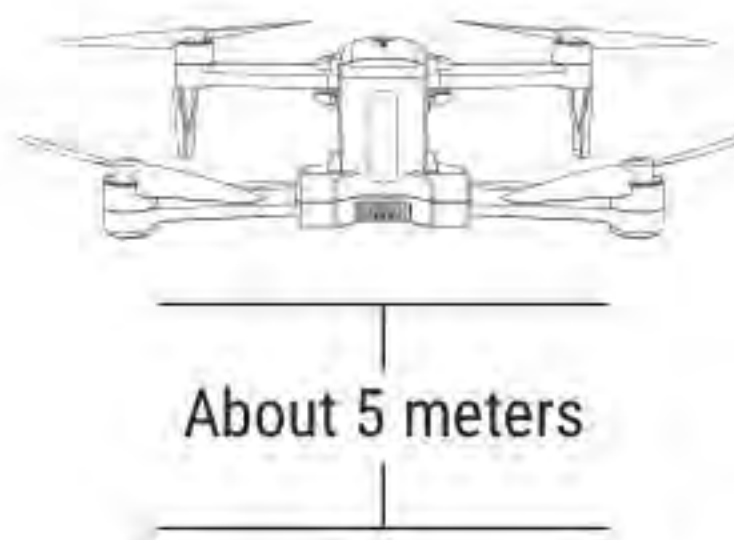
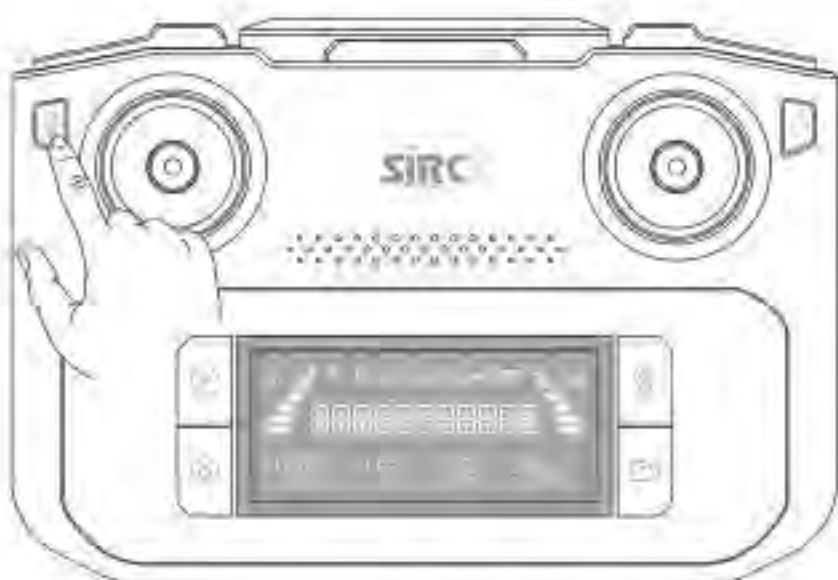


2. POINT OF INTEREST



1. Hover the aircraft at the center point to be surrounded.
2. Select the surrounding radius on the APP, and slide to flight.
3. When circling, you can control the left or right direction lever to change the clockwise flight or counterclockwise flight of the aircraft.
4. When circling, you can control the forward direction lever or the backward direction lever to change the circling radius of the aircraft.
5. Click the  icon again on the APP to exit the Surround Function.

3. EMERGENCY STOP



- ! 1. Keep pressing  for 3 seconds to emergency stop. It is activated if the flight height of aircraft within 5 meters; otherwise, it is not activated. Only stop motors mid-flight in Emergency Stop function will be only activated in emergency situations to reduce the risk of damage and injury.
- 2. When the aircraft starts to return to home (RTH) with flying against the wind in low battery, and there is no way to safely land to the take-off point, the one-button landing function on the APP can be triggered, and the landing point can be manually selected during the aircraft landing process. The aircraft will continue to perform the descent function after the remote control signal disconnected when the aircraft is descending.

4. GPS FOLLOW-ME GPS:1559 to 1610MHz

When the Follow Me function activated, the aircraft will follow the GPS in your smart phone to follow you wherever you go.

(Make sure the smart phone connect with the aircraft successfully, turn on APP on your smart phone.)

1. Make sure the flight scope is within 10-50 meters.
2. Click  on the APP interface.
3. Waiting for APP aircraft Status to display "Follow Me ready" ---Now the aircraft is moving along with the positioning coordinate on the APP.
4. Click the  on the APP interface again to exit the Follow Me mode.

Common Issues:

GPS Follow-me function will be affected by the tall structures, trees and the living areas with WIFI signal interference.

GPS Follow-me function is not activated if the GPS signal weak or GPS positioning OFF in the mobile device.

* Use in open area and be mindful of your surroundings. Aircraft is NOT equipped with obstacle avoidance.

RETURN-TO-HOME (RTH)

The Return to Home (RTH) function bring the aircraft back to the Take Off Point. This function only can be achieved under GPS mode.

There are 3 types of RTH: Smart RTH/Low-battery RTH/Fail connection RTH

①. Smart Return To Home



Press the Return to Home Button on your remote control or tap on the App of your smart phone, and the remote control will start beeping. Your aircraft will return to the TAKE OFF Point. Press the button again to stop RTH procedure. or alter the left and right joysticks to make the aircraft landing in the safe area.



RTH Button



The app's RTH Button

②. Low-Battery return to home

Low-Battery RTH is triggered when the Flight Battery level is low, When low battery RTH activated, aircraft ascends or descends automatically at the height altitude of 30 meters, then you can alter the left and right joysticks to make it landing in the safe area. Aircraft returns to the take-off point if the current battery level can only support the aircraft long enough to decend from the current altitude.

③. Fail connection **RETURN-TO-HOME (RTH)**

Aircraft will enter Return to Home Mode if the signal to the remote control is lost. The aircraft will return to the take-off point. The aircraft may link the remote control automatically during the RTH activated. If links sucessfully, you can re-operate the aircraft.

WARNING:

This aircraft is equipped with obstacle-avoidance.

④. Emergency Return to Home(RTH)

When the drone is out of control, the APP pops up to trigger the emergency return dialog box. Click OK, and the aircraft triggers an emergency return to home(RTH).

Click cancel, the aircraft will continue to fly out of control, and the APP will pop up the dialog box again.

Remark:

1. If it is without selecting in 5 seconds, emergency return to home function is defaulted to trigger.
2. If the aircraft is in a normal state, the APP pops up the dialog box. Please click on the cancellation within 5 seconds to avoid triggering emergency return to home function.
3. If the emergency return to home function is triggered by mistake, you can click the exit emergency return to home button in the screen to cancel the emergency return to home function.

COMMON SOLUTIONS

The mobile device and remote control cannot be connected.
Check the status of control signal icon on the APP if changed.

The aircraft hovers unsteadily.

- ① Change the flight area. Please DO NOT fly near high buildings or signal towers.
- ② Conduct aircraft compass calibration and horizontal calibration.
- ③ Judge whether the strong wind affects the flight or not.
- ④ Judge whether the fan blade and the arm are deformed or not.

The GPS accuracy of the aircraft is not accurate or cannot pass the GPS accuracy test.

- ① Go to an open area outdoors where GPS signal can be searched 6 or more satellites.
- ② Walk around the aircraft at close range.
- ③ Replace the mobile device.
- ④ Do not test it under high buildings.

The battery cannot be charged.

Re-plug and unplug the charger or re-load and unload the battery.

Short flight time.

Overcharge or discharge the battery, also the battery life reducing can be caused by the high-temperature environment. It is recommended to store the remaining 60% of the battery power and recharge it fully before using.

Excessive inclination angle or abnormal problem of the UAV PTZ checking.

- › Re-start the aircraft on the flat ground to PTZ calibration.
- › Check the PTZ status if it works or not.
- › Choose the "•••" on the APP to restore the PTZ to original factory setting.

PTZ initialization fails

Please take the PTZ protection cover off before turn on the power of the aircraft, then put it on the flat ground to PTZ calibration.

SPECIFICATIONS

● Drone

MODEL: F22 S3 PRO

Weight (Including Battery): 615g/21.7oz

Flight Time: About 40 min

Motor Model: 1806

Operating Temperature Range: 32° to 104° F (0° to 40° C)

Satellite Systems: GPS/GLONASS

Dimensions (LxWxH): Unfolded: 35x35x8.3 (cm)

Folded: 20.2x10.7x8.3 (cm)

● Stabilization: 3-axis mechanical gimbal (tilt, roll, pan)

Tilt: -100° to 70°

Roll: -35° to 35°

Pan: -15° to 15°

Controllable angle up and down: -80° to 0°

5GHz WIFI: 5180MHz to 5240MHz; Power: 12.69dBm

● 5G Transmission

Operating Frequency: 5.15--5.25GHz

Supported Transmission Protocol: 802.11a

● Signal Transmission:

Strong Interference: Approx. 0.5-1 km

Medium Interference: Approx. 1-3.5km

No Interference: Approx. 3.5-6 km

Data is tested under different standards in open areas free of interference.

It only refers to the maximum, one-way flight distance without considering

Return to Home. Please pay attention to RTH prompts in the SJ F PRO app during actual flight.

● Remote Control

Operating Frequency: 5G

Max operating distance: Up to 6KM (Outdoor and Unobstructed)

Battery: 550mAh*2 Li-polymer

Charging time: about 1 hour

Operating time: about 2.5 hours

Operating Voltage: 7.4V

Operating Temperature: 32° to 104° F (0° to 40° C)

● Intelligent Flight Battery

Capacity: 3500mAh

Voltage: 11.1V

Battery Type: Li-polymer

Energy: 38.85Wh

Net Weight: 245g / 8.6oz

Max Charging Power: 30W

Max Charging Time: About 120 min (Depending on Charging Power)

Charging Temperature Range: 32° to 104° F (0° to 40° C)

● Charging cable: Type-C

Voltage: 5V $\equiv$ 3A 20V $\equiv$ 1.5A

Rated Power: $\leq$ 30 W

FCCID: 2ALUJF22S3PRO

FCC Compliance Statements

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

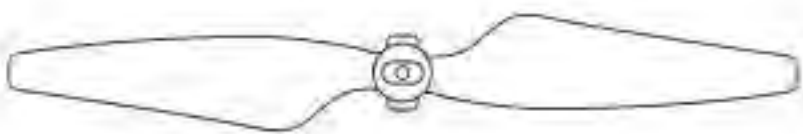
If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

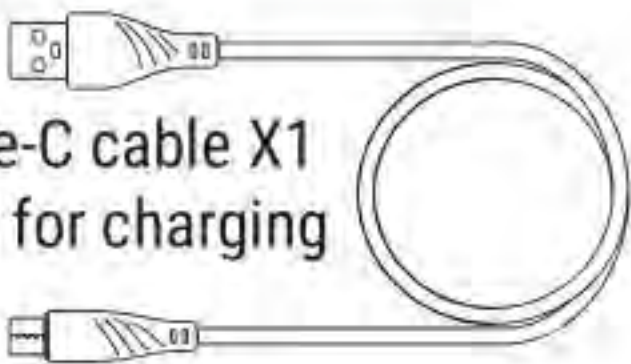
Caution: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

PARTS LIST (Included)

 Blade A X2

 Blade B X2

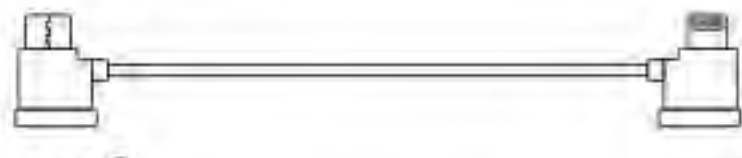
 Type-C cable X1
Only for charging

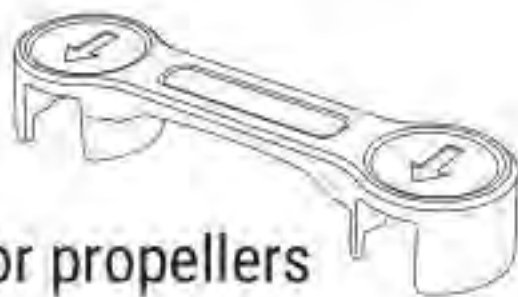


Instructions X1

 USB Type-C
Type-C

 Micro-USB
Type-C

 Lightning
Type-C

 Fixed parts for propellers

 Joystick parts X2

COMMON PROBLEMS AND SOLUTIONS

THE PROBLEM	REASON	COUNTERMEASURES
Drone lights flashing and no response from the drone when operating.	1. Remote is not synced to the drone. 2. Insufficient battery power.	1. Refer to the Quick Start guide and re-sync the drone. 2. Recharge the battery.
The blades spin, but the drone cannot takeoff.	1. Insufficient battery power. 2. The blades distorted.	1. Recharge the battery. 2. Replace the blades.
The quadcopter shakes heavily.	The blades distorted.	Replace the blades.
Drone cannot stay balanced in flight.	1. The blades distorted. 2. The motor doesn't work properly.	1. Replace the blades. 2. Replace the motor.